

Avaya Solution & Interoperability Test Lab

Application Notes for LumenVox Automated Speech Recognizer, LumenVox Text-to-Speech Server and LumenVox Call Progress Analysis with Avaya Aura® Experience Portal – Issue 1.0

Abstract

These Application Notes describe the configuration steps required to integrate LumenVox Automated Speech Recognizer, LumenVox Text-to-Speech Server, and LumenVox Call Progress Analysis with Avaya Aura® Experience Portal.

Information in these Application Notes has been obtained through DevConnect compliance testing and additional technical discussions. Testing was conducted via the DevConnect Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

The objective of the compliance test was to validate interoperability of LumenVox Automated Speech Recognizer, LumenVox Text-to-Speech Server, and LumenVox Call Progress Analysis with Avaya Aura® Experience Portal.

LumenVox provides a complete set of speech recognition, text-to-speech technologies, and call progress analysis for use in interactive voice response (IVR) applications. The product set includes the LumenVox Automatic Speech Recognizer (ASR), Text-to-Speech (TTS) Server, and Call Progress Analysis (CPA). All products are used in conjunction with the LumenVox Media Server which provides an interface to Avaya Aura® Experience Portal using the Media Resource Control Protocol (MRCP). Additionally LumenVox Call Progress Analysis (CPA) leverages the strength of LumenVox Automated Speech Recognizer (ASR) by constantly listening for various tones, just as it would when performing speech recognition. These are compared to special acoustic models for matches, similar to our ASR's function. The result is more reliable and highly accurate message delivery.

2. General Test Approach and Test Results

The general test approach was to test various VoiceXML scripts that exercise various types of grammars in LumenVox ASR and TTS. A predefined set of VoiceXML scripts tested built-in grammars, menu grammars and Speech Recognition Grammar Specification (SRGS) grammars. Verification of CPA was performed using outbound calls for testing CPA capabilities.

DevConnect Compliance Testing is conducted jointly by Avaya and DevConnect members. The jointly-defined test plan focuses on exercising APIs and/or standards-based interfaces pertinent to the interoperability of the tested products and their functionalities. DevConnect Compliance Testing is not intended to substitute full product performance or feature testing performed by DevConnect members, nor is it to be construed as an endorsement by Avaya of the suitability or completeness of a DevConnect member's solution.

2.1. Interoperability Compliance Testing

The interoperability compliance test included feature and serviceability tests. Feature tests focused on the ability of LumenVox ASR and TTS to successfully exercise appropriate grammar and return expected results. LumenVox CPA focused on proper detection of answering party.

Serviceability testing focused on verifying the ability of the LumenVox ASR, TTS, and CPA server to recover from adverse conditions, such as restart, power failures and network disconnects.

2.2. Test Results

All test cases passed.

2.3. Support

To obtain technical support for LumenVox:

- Web: <u>www.lumenvox.com/help/</u>
- **Email:** support@lumenvox.com
- **Phone:** (858)707–7700

3. Reference Configuration

Following diagram shows the configuration used during the interoperability compliance test. Reference configuration consisted of:

- Avaya Aura® Experience Portal
- Avaya S8300D Server running Avaya Aura® Communication Manager
- Avaya G450 Media Gateway
- Avaya Aura® Session Manager
- Avaya Aura® System Manager
- Avaya IP Telephones
- Application Server
- LumenVox Automated Speech Recognizer
- LumenVox Text-to-Speech Server
- LumenVox CPA

Note: Each of the LumenVox components are installed on a single server.



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Figure 1: Reference Configuration

4. Equipment and Software Validated

The following equipment and software were used for the sample configuration:

Equipment/Software	Release/Version
Avaya Aura® Experience Portal EPM running on HP Proliant DL360 G7	6.0.2.0.0501
Avaya Aura® Experience Portal MPP running on VM Ware Virtual Machine on Dell Blade Server	6.0.2.0.0501
Avaya G450 Media Gateway	32.26.0
Avaya S8300D Server running on Avaya Aura® Communication Manager	R016x.03.0.124.0
Avaya 9600 Series IP Telephones	H.323 3.2 SIP 6.2.2.17
Avaya Aura® Session Manager running on HP Proliant DL360 G7	6.3.2.0.632023
Avaya Aura® System Manager running on HP Proliant DL360 G7	6.3.0 –FP2
LumenVox components on a single VM Ware Virutal Machine running on Dell Blade Server:	
LumenVox Automated Speech Recognizer	11.2.200
• LumenVox Text-to-Speech	
• LumenVox Call Progress Analysis	
Tomcat Apache Web Server running on VM Ware Virtual Machine running on Dell Blade Server	6.0.29

5. Configure Avaya Aura® Experience Portal

Experience Portal is configured via the Experience Portal Manager (EPM) web interface. To access the web interface, enter <u>http://<ip-addr>/</u> as the URL in a web browser, where <*ip-addr>* is the IP address of the EPM. Log in using the admin user. (Not Shown)

AVAYA	Welcome, add Last logged in today at 11:26:40 AM I	min мот
Avaya Aura® Experience Port	al 6.0 (ExperiencePortal) 😚 Home 🖓 Help 🤤 Logo	off
Expand All Collapse Al	You are here: Home	
▼ User Management Roles Users	Avaya Aura® Experience Portal Manager	
Login Options	Avaya Aura® Experience Portal Manager (EFM) is the consolidated web-based application for administering Experience Portal. Through the EPM interface, you can configure Experience Portal, chack the status of a Experience Portal component, and generate reports related to system operation.	
System Management Application Server	Installed Components	
MPP Manager Software Upgrade System Backup ▼ System Configuration Alarm Codes Alarm/Log Options Applications EPM Servers MPP Servers Report Data SNMP Speech Servers VoIP Connections ▼ Security	 Media Processing Platform Media Processing Patform (MPP) is an Avaya media processing server. When an MPP receives a carfrom a PBX, it invokes a VoiceXML or CCXML application on an application server and communicativity with ASR and TTS servers as necessary to process the call. Proactive Outreach Manager Avaya Proactive Outreach Nanager (POM) provides a solution for unified, multichannel, inbound an outbound architecture, with the capability to communicate through different channels of interaction from Short Message Service (SMS) to e-mail to the traditional voice and video. 	all .es 1d
Certificates Licensing Reports Standard Custom Scheduled POM POM Home POM Monitor	© 2005 - 2012 Avaya Inc. All Rights Reserved. Notice While reasonable efforts were made to ensure that the information in this document was complete and accurate at the time of printing, Avaya Inc. can assume no liability for any errors. Changes and corrections to the information in this document might be incorporated in future releases.	*

5.1. Add VoIP Connections

During compliance testing both H.323 and SIP VoIP connections were used. However, either H.323 or SIP VoIP connection can be active at any given time. On the left pane, click on the **System Configuration** \rightarrow **VoIP Connections** tab to configure VoIP connections (not shown).

5.1.1. H.323 Connection

To add an H.323 Connection, click on **H.323** tab (not shown) and click **Add** (not shown)

- **Name**: Enter a descriptive name
- Gatekeeper Address: Enter the IP address of Communication Manager.
- Media Encryption: Set to No.
- New Stations: Enter Station From and To, and Password. Select Inbound and Outbound and click Add.
 Note: Station information should be gathered from the existing Communication Manager configuration.
- Retain the default values in the remaining fields Click **Save** to save changes.

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Vaya Aura® Experience	Portal 6.0 (ExperiencePortal)				🕇 Home	? ₊ Help	🛿 Logoff
Expand All Collapse All	You are here: Home > System Co	onfiguration > VoIP Co	nnections > A	dd H.323 Cor	nnection		
Y User Management Roles Users Login Options Y Real-Time Monitoring	Add H.323 Connecti	on 3 connection.					
System Monitor Active Calls Port Distribution	Name:	CM5052					
System Maintenance Audit Log Viewer	Enable:	🖲 Yes 🔘 No					
Trace Viewer Log Viewer	Gatekeeper Address:	10.64.50.52					
System Manager	Alternative Gatekeeper Address:						
MPP Manager Software Upgrade	Gatekeeper Port:	1719					
System Backup System Configuration	Media Encryption:	🔘 Yes 🔍 No					
Alarm Codes Alarm/Log Options Applications	New Stations						
EPM Servers MPP Servers	From	То					
Report Data SNMP	Station: 60001	60002					
VoIP Connections Security	Password: •••••						
Certificates Licensing Reports	Same Passwer	ord					
Standard Custom	O Use sequenti	al passwords					
Scheduled POM POM Home POM Monitor	Station Type: Inbound Only Maintenance	bound			Add		
	Configured Stations (M for M	aintenance, I for Ir	nbound Only	()			
	<no station=""></no>			D	movo		
				Re	anove		
						3	
	Save Cancel Help						

5.1.2. SIP Connection

To add a **SIP Connection**, click on the **SIP** tab (not shown) on the **VoIP Connections** page (not shown).

- Name: Enter a descriptive name..
- Set **Proxy Transport** to **TCP**.
- In the Address and Port boxes, enter the IP address and Port of Session Manager.
- **SIP Domain**: Enter the domain used in Session Manager.
- Maximum Simultaneous Calls: During the test, 10 was used for the Maximum Simulataneous Calls field.
- Retain the default values in the remaining fields Click **Save** to save changes.

Αναγα	Welcon Last logged in today at 11:26:4	n e, admin 40 AM MDT
Avaya Aura® Experience P	Portal 6.0 (ExperiencePortal) fi Home 📪 Help (🛚 Logoff
Expand All Collapse All	You are here: <u>Home</u> > System Configuration > <u>VoIP Connections</u> > Add SIP Connection	
▼ User Management Roles Users	Add SIP Connection	
Login Options • Real-Time Monitoring System Monitor Active Calls	Use this page to add a new SIP connection.	
Port Distribution	Name: SM5031	
Audit Log Viewer	Enable: O Yes No	
Log Viewer Alarm Manager	Proxy Transport: TCP 🔻	
System Management Application Server MPD Manager	Proxy Servers DNS SRV Domain	
Software Upgrade System Backup	Address Port Priority Weight	
 System Configuration Alarm Codes 	10.64.50.31 5060 0 0 Remove	
Alarm/Log Options Applications EPM Servers	Additional Proxy Server	
MPP Servers Report Data SNMP	Listener Port: 5060	
VoIP Connections	SIP Domain: d4f27.com	
Certificates	P-Asserted-Identity:	
▼ Reports Standard	Consultative Transfer:	
Scheduled		
POM Home POM Monitor	SIP Timers	
	T1: 250 millisecond(s)	
	T2: 2000 millisecond(s)	
	B and F: 4000 millisecond(s)	
	Call Capacity	
	Maximum Simultaneous Calls: 10	
	All Calls can be either inbound or outbound	
	Configure number of inbound and outbound calls allowed	
	Save Cancel Help	

5.2. Add Speech Servers

On the left pane, click on the **System Configuration** \rightarrow **Speech Servers** tab to add Speech Server.

5.2.1. ASR Server

To add an ASR server, click on ASR tab (not shown), and click Add (not shown).

- Name: Enter a descriptive name.
- Enable: Set to Yes.
- Engine Type: Set to Nuance, using the drop down menu
- Network Address: Enter the IP address of LumenVox Automated Speech Recognizer.
- Base Port: Enter 554.
- Total Number of Licensed ASR Resources: Enter an appropriate value
- New Connection per Session: Select Yes.
- Languages: Select English(USA) en-US.

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- RTSP URL: Enter<LumenVox_ASR_IP address>/media/speechrecognizer
- Click **Save** to save changes.

Avaya Aura® Experience Po Expand All Collapse All	stal C.O. (Essentian and Destal)		
Vser Management	rtal 6.0 (ExperiencePortal)		👫 Home 🛛 ?+ Help 🛛 Logoff
▼ User Management	You are here: <u>Home</u> > System Configuratio	n > <u>Speech Servers</u> > Add ASR Server	
Roles	Add ASR Server		
Login Options Real-Time Monitoring System Monitor	Use this page to configure Experience Port	al to communicate with a new ASR server.	
Active Calls Port Distribution	Name:	LumenVox_ASR	
▼ System Maintenance Audit Log Viewer	Enable:	🖲 Yes 🔘 No	
Trace Viewer Log Viewer	Engine Type:	Nuance -	
Alarm Manager ▼ System Management	Network Address:	10.64.101.83	
Application Server MPP Manager	Base Port:	554	
Software Upgrade System Backup	Total Number of Licensed ASR Resources:	10	
 System Configuration Alarm Codes 	New Connection per Session:	Yes No	
Alarm/Log Options Applications EPM Servers MPP Servers Report Data SNMP Speech Servers VoIP Connections	Languages:	Dutch(Netherlands) nI-NL English(Australia) en-AU English(UK) en-GB English(India) en-IN English(Singapore) en-SG English(USA) en-US	
Security Certificates	MRCP		
► Reports Standard Custom Scheduled	Ping Interval: 15 second(s) Response Timeout: 4 second(s)		
POM Home	Protocol: MRCP V1 -		
POM Monitor	RTSP URL: 10.64.101.83/media/speechred	ognizer	

5.2.2. TTS Server

To add a **TTS** server, click on **TTS** tab (not shown) on **Speech Servers** (not shown) page, and click **Add** (not shown).

- Name: Enter a descriptive name.
- Enable: Set to Yes.
- Engine Type: Set to Nuance using the drop down menu.
- Network Address: Enter the IP address of LumenVox Text to Speech server.
- Base Port: Enter 554.
- Total Number of Licensed TTS Resources: Enter an appropriate value.
- New Connection per Session: Select Yes.
- Languages: Select English(USA) en-US Jennifer F.
- RTSP URL: Enter <LumenVox_ASR_IP address>/media/speechsynthesizer
- Click **Save** to save changes.

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Avaya Aura® Experience Por	tal 6.0 (ExperiencePortal)		👫 Home 📪 Help 🛚 Logo	ff
Expand All Collapse All	You are here: Home > System Configurat	tion > <u>Speech Servers</u> > Add TTS Server		
▼ User Management Roles Users Login Options	Add TTS Server			
 Real-Time Monitoring System Monitor 	Use this page to configure Experience Po	ortal to communicate with a new TTS server.		
Active Calls Port Distribution	Name:	LumenVox_TTS		
 System Maintenance Audit Log Viewer 	Enable:	🖲 Yes 🔘 No		
Trace Viewer Log Viewer	Engine Type:	Nuance -		
Alarm Manager System Management	Network Address:	10.64.101.83		
Application Server MPP Manager	Base Port:	554		
Software Upgrade System Backup	Total Number of Licensed TTS Resources	s: 10		
 System Configuration Alarm Codes 	New Connection per Session:	🔘 Yes 🖲 No		
Alarm/Log Options Applications EPM Servers MPP Servers Report Data SNMP Speech Servers	Voices:	English(Irish) en-IE Moira F English(South_African) af-ZA Tessa F English(Scottish) en-SC Fiona F English(USA) en-US Donna F English(USA) en-US Erica F	 (E) 	
VoIP Connections • Security		English(USA) en-US Jennifer F	Ŧ	
Licensing	MRCP			
▼ Reports Standard	Ping Interval: 15 second(s)			
Custom Scheduled	Response Timeout: 4 second(s)			
POM Home POM Monitor				
	RTSP URL: 10.64.101.83/media/speeche	synthesizer		
	Save Cancel Help			

6. Configure LumenVox Automated Speech Recognizer

All configurations for LumenVox applications were performed by a LumenVox Engineer.

Log on to LumenVox server using a SSH client. The **/etc/lumenvox/media_server.conf** file needs to be modified for the following fields:

- The value of **mrcp_server_ip** must be set to the IP address of the machine that LumenVox is installed on. This must be an IP address that the Experience Portal can reach and route traffic to. Please contact LumenVox Support for questions about configuring firewalls if they will be running.
- The value of **compatibility_mode** must be changed from the default **0** to **1**

Note: When configuring an application in Experience portal to use the LumenVox ASR, set the "**Speech Complete Timeout**" parameter under **Speech Parameters** to a non-0 value:

Speech Parameters 🔻	
ASR	
Confidence Threshold:	
Sensitivity Level:	
Speed vs. Accuracy:	
N Best List Length:	
No Input Timeout:	millisecond(s)
Recognition Timeout:	millisecond(s)
Speech Complete Timeout: 800	millisecond(s)
Speech Incomplete Timeout:	millisecond(s)
Maximum Grammar Cache Age:	second(s)
Minimum Grammar Freshness Time:	second(s)
Maximum Grammar Staleness:	second(s)
Vendor Parameters:	~
TTS	
Prosody Volume: <none> - or</none>	
Prosody Rate: <none> or</none>	
Vendor Parameters:	

7. Configure LumenVox Text-to-Speech Server

The LumenVox Media Server must be configured as described in **Section 6**. There are no special configurations for the Text-to-Speech Server.

8. Verification Steps

This section provides the verification steps that may be performed to verify that Experience Portal and the LumenVox servers are online and functioning properly.

8.1. Avaya Aura® Experience Portal

 From the EPM web interface, navigate to System Management → MPP Manager. From the MPP Manager screen, shown below, verify that the Media Processing Platform (MPP) servers are Online and Running.

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Αναγα	Welcome, admin Last logged in today at 2:18:12 PM MDT
Avaya Aura® Experience Portal 6.0 (Exp	periencePortal) ff Home ?- Help 😗 Logoff
Avaya Aura⊗ Experience Portal 6.0 (Exp Expand All Collapse All You are R Roles Users Login Options Real-Time Monitoring System Monitor Artive Calls Port Distribution Trace Viewer Login Options System Monitor * System Monitor Audit Log Viewer Trace Viewer Login Options Application Server MPP MPP Manager Software Options Applications Alarm Codes Alarm Codes Alarm Codes Alarm Codes Alarm Codes Alarm Codes Speech Servers Voluce Connections Speech Servers Voluce Connections Scheduled POM Home POM Monitor	hereincePortal) A Home ? .Help @ Logoff here: Homa > System Management > MPP Manager Manager (Jun 26, 2013 2:21:31 PM MDT) te displays the current state of each MPP in the Experience Portal system. To enable the state and mode commands, select one or es. To enable the mode commands, the selected MPPs must also be stopped. Last Poll: Jun 26, 2013 2:21:20 PM MDT erver Name Mode State Config Auto Restart Restart Schedule Active Calls Jage mote Online Running OK No No No None None O 0 ommands Stop Restart Reboot Hult Cancer Manager Immands Immands Manager

2. On the left pane, navigate to **Real-Time Monitoring** → **Port Distribution**. From the Port Distribution page, verify that the ports on the MPP server are in service

Αναγα			Welcome, admin Last logged in today at 2:18:12 PM MDT
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Alarm Codes Alarm/Log Options Applications EPM Servers MPP Servers Report Data SNMP Speech Servers VoIP Connections VoIP Connections Vecurity Certificates Licensing Reports Standard Custom Scheduled POM POM Home POM Monitor	3 Online In service sm5031 4 Online In service sm5031 5 Online In service sm5031 6 Online In service sm5031 7 Online In service sm5031 8 Online In service sm5031 9 Online In service sm5031 10 Online In service sm5031	SIP_Trunk MPPRemote	

8.2. LumenVox Automated Speech Recognizer

The Avaya test application (usually installed with the MPP in /mpp/misc/avptestapp/intro.vxml) may be used to test the ASR.

8.2.1. Configuring the Application

From the EPM web interface, navigate to **System Configuration** \rightarrow **Applications**. Click the **Add** button (not shown) to create a new application.

- **Name**: Enter a descriptive name.
- Enable: Set to Yes.
- **Type**: Set to **VoiceXML** using the drop down menu.
- URL Enter the URL for the Application.
- Speech Servers Select Nuance for ASR and TTS.
- Application Launch Enter an Extension for Called Number: and click the Add button.
- Speech Parameters Enter 800 for Speech Complete Timeout:
- Click **Save** to save changes.

Note: When configuring an application in Experience portal to use the LumenVox ASR, set the "**Speech Complete Timeout**" parameter under **Speech Parameters** to a non-0 value:

AVAYA		Welcome, admin Last logged in today at 9:49:32 AM MDT
Avaya Aura® Experience F	Portal 6.0 (ExperiencePortal)	fi Home ?-Help 🛚 Logoff
Expand All Collapse All	You are here: <u>Home</u> > System Configuration > <u>Applications</u> > Add Application	·
 User Management Roles 	Add Application	
Users Login Options Real-Time Monitoring	Use this page to deploy and configure a new application on the Experience Portal system.	
System Monitor Active Calls	Name: Iumeni/ox Test	
Port Distribution System Maintenance		
Audit Log Viewer Trace Viewer		
Log Viewer Alarm Manager		
Application Server		
Software Upgrade System Backup	🖲 Single 🖱 Fail Over 🖱 Load Balance	
 System Configuration Alarm Codes 	VoiceXM_ URL: http://10.64.101.26/mpp/misc/avptestapp/intro.ccxml	Verify
Alarm/Log Options Applications	Mutual Certificate Authentication: 🔘 Yes 🔘 No	E
MPP Servers Report Data	Basic Authentication: 🔘 Yes 🔘 No	
SNMP Speech Servers	Speech Servers	
VoIP Connections Security	ASR: Nuance TTS: Nuance T	
Certificates Licensing	English(USA) en-US A English(USA) en-US Jennifer F	
Reports Standard	Languages: Voices:	
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	Sensitivity Level:	
	Speed vs. Accuracy:	
	N Best List Length:	
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	Recognition Timeout: millisecond(s)	
	Speech Complete Timecut: 800 millisecond(s)	
	Speech Incomplete Timeout: millisecond(s)	
	Maximum Grammar Cache Age:second(s)	
	Mirimum Grammar Freshness Time: second(s)	
	Maximum Grammar Staleness:second(s)	
	vendor Parameters:	
	TTS	
	Presody Volume: <pre>NONE> </pre>	
	Prcsody Rate: <none> • or</none>	
	Vendor Parameters:	
	Reporting Parameters >	
	Advanced Parameters >	
	Save Cancel Help	•

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8.2.2. Verifying the LumenVox ASR

- Dial into the application using the Called Number specified in the newly created application.
- At the main menu, press 1 for speech recognition test.
- When prompted, speak "Open the window."
- Confirm that the application understands the utterance.

Note: For optimal results, avoid use of a speakerphone when testing the ASR, as it may introduce recognition issues.

8.3. LumenVox Test-to-Speech Server

The Avaya test application (usually installed with the MPP in /mpp/misc/avptestapp/intro.vxml) may be used to test the TTS. Perform the following steps:

- 1. Configure the test application to use the LumenVox TTS.
- 2. Dial into the application.
- 3. At the main menu, press 2 for text-to-speech test.
- 4. Confirm TTS speaking.

9. Conclusion

These Application Notes describe the configuration steps required to integrate LumenVox Automated Speech Recognizer, LumenVox Text-to-Speech Server, LumenVox Call Progress Analysis with Avaya Aura® Experience Portal. All feature and serviceability test cases were completed successfully without any observations as described in **Section 2.2**.

10. Additional References

This section references the Avaya documentation relevant to these Application Notes. The following Avaya product documentation is available at <u>http://support.avaya.com</u>.

[1] Administering Avaya Aura® Experience Portal, June 2013

LumenVox help documentation, including detailed installation and configuration instructions, is available online at http://www.lumenvox.com/help/

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